FIG. 1

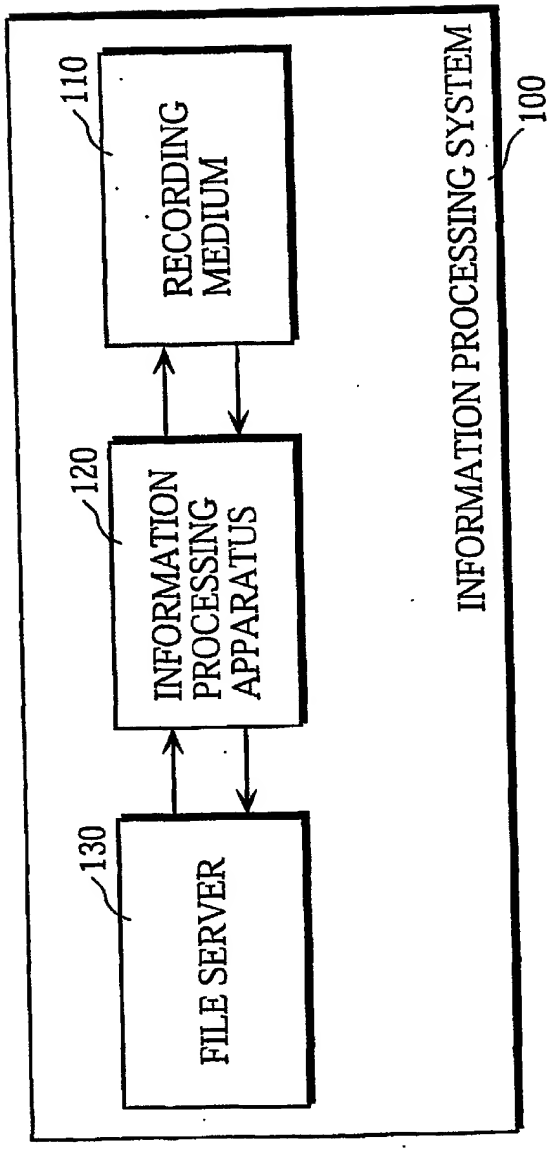
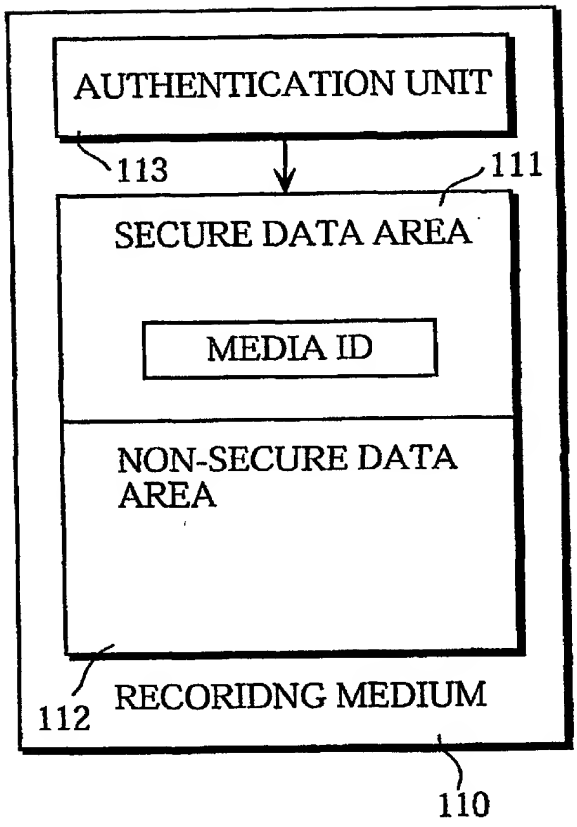

INFORMATION PROCESSING SYSTEM
100
RECORDING MEDIUM
110
INFORMATION PROCESSING APPARATUS
120
FILE SERVER
130

FIG. 2


AUTHENTICATION UNIT
113
111
SECURE DATA AREA
MEDIA ID
NON-SECURE DATA AREA
112
RECORIDNG MEDIUM
110

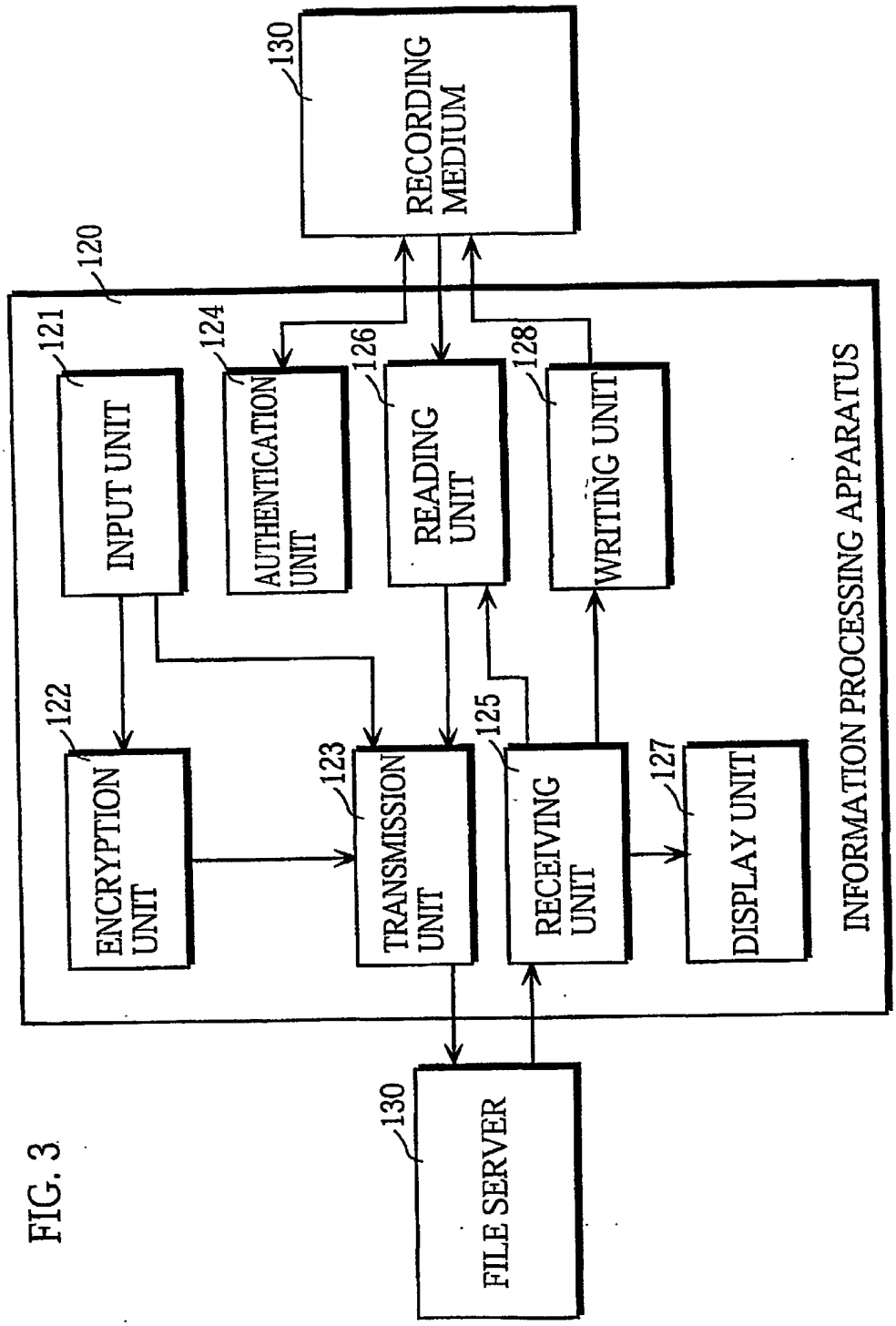

130
RECORDING MEDIUM
120
121
INPUT UNIT
124
AUTHENTICATION UNIT
126
READING UNIT
128
WRITING UNIT
INFORMATION PROCESSING APPARATUS
122
ENCRYPTION UNIT
123
TRANSMISSION UNIT
125
RECEIVING UNIT
127
DISPLAY UNIT
130
FILE SERVER

FIG. 3

FIG. 4

USER NAME	ARAMIS
SEX	MALE
AGE	27
DATE OF BIRTH	090872
JOB	ENGINEER
ADDRESS	○○WARD, TOKYO
TELEPHONE NUMBER	555-777-XXXX
MAIL ADDRESS	Aramis@zzz
CARD NUMBER	123....
NUMBER OF TIMES THE SITE HAS BEEN VISITED	11
DATE AND TIME OF SITE VISIT	a10:30 12/07/99
HOBBY 1	SOCCER
HOBBY 2	TRAVEL
. . .	. . .

FIG. 5

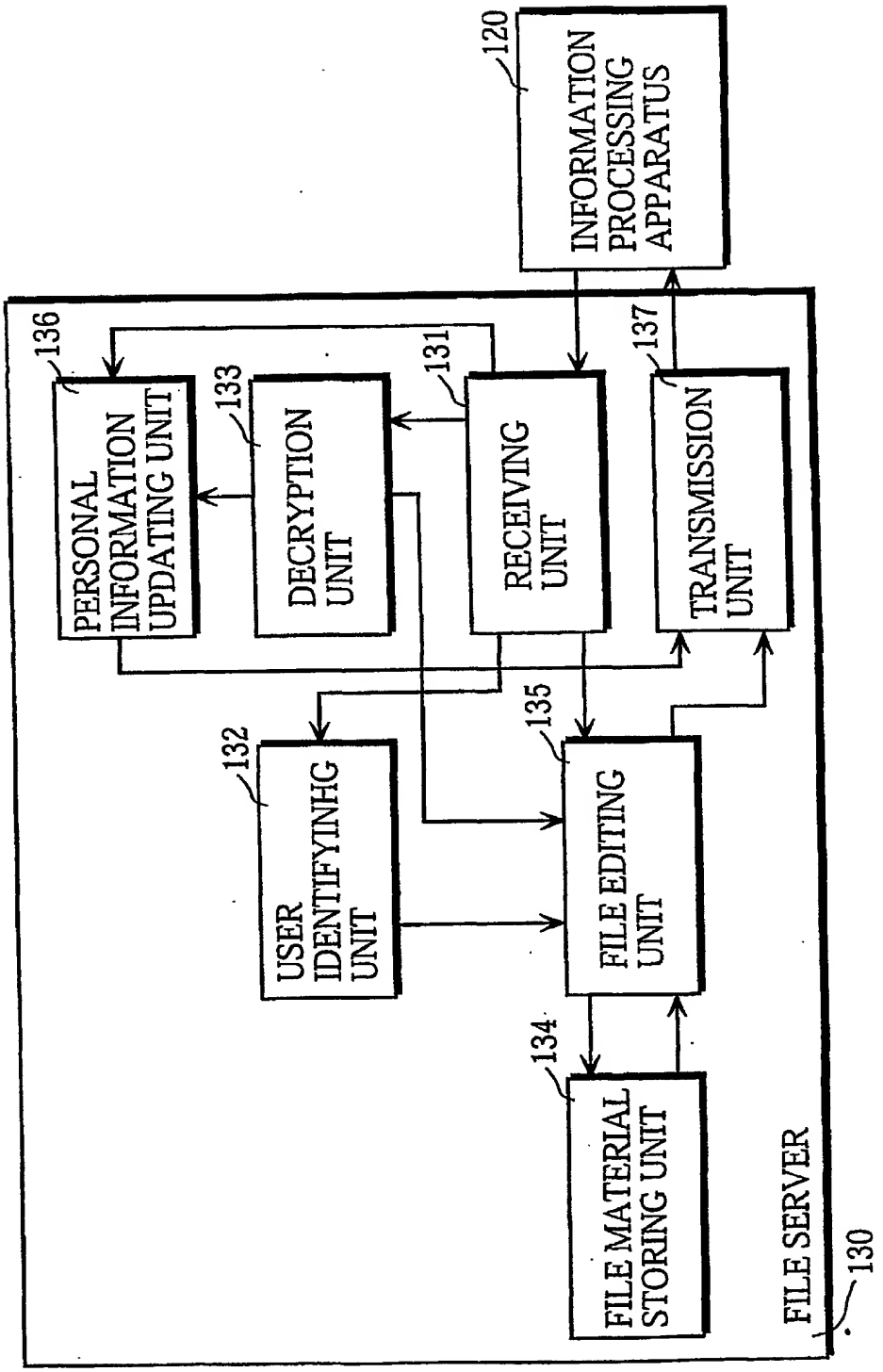

120
INFORMATION PROCESSING APPARATUS
136
PERSONAL INFORMATION UPDATING UNIT
133
DECRYPTION UNIT
131
RECEIVING UNIT
137
TRANSMISSION UNIT
132
USER IDENTIFYINHG UNIT
135
FILE EDITING UNIT
134
FILE MATERIAL STORING UNIT
FILE SERVER
130

FIG. 6

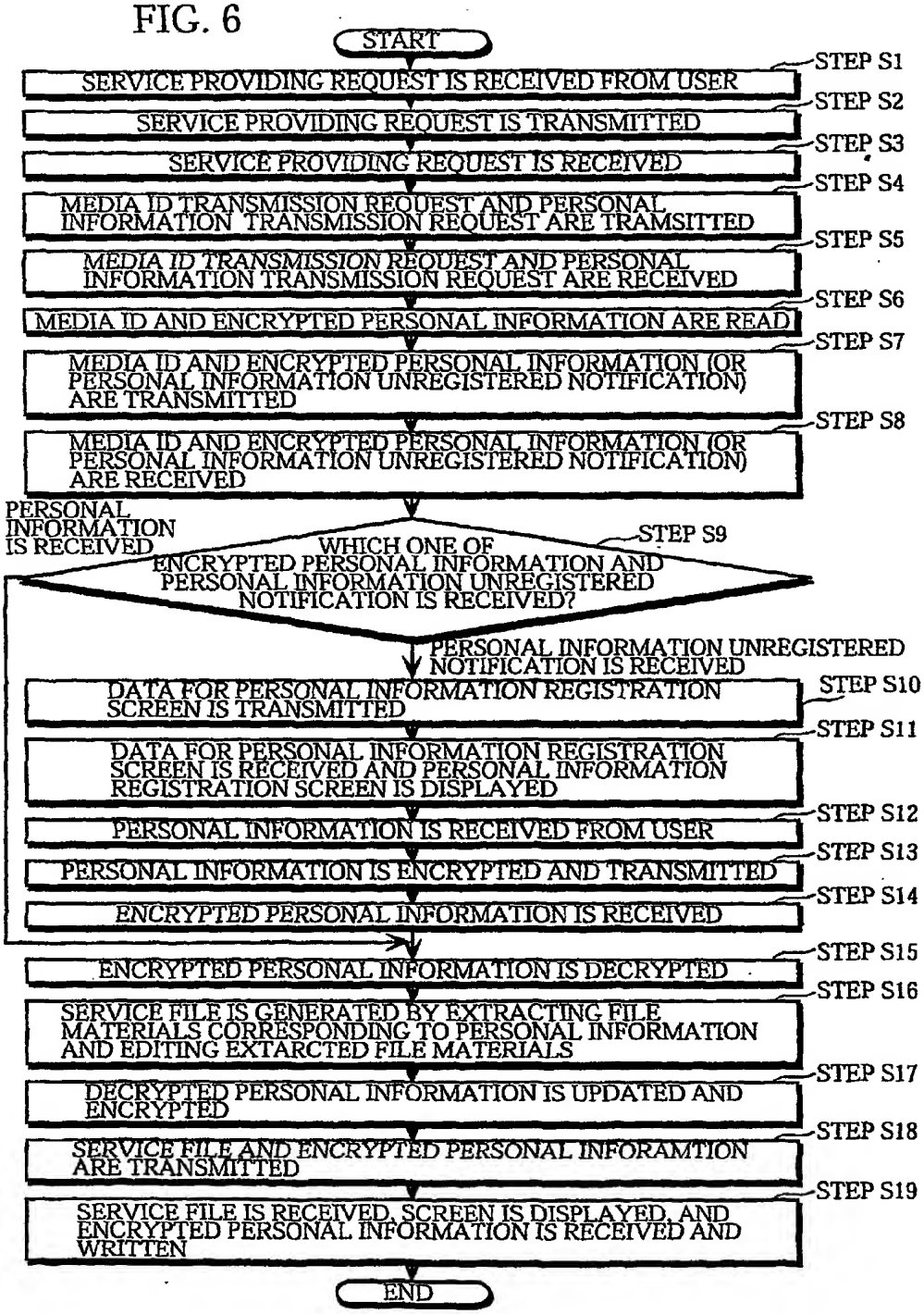

START
SERVICE PROVIDING REQUEST IS RECEIVED FROM USER
STEP S1
SERVICE PROVIDING REQUEST IS TRANSMITTED
STEP S2
SERVICE PROVIDING REQUEST IS RECEIVED
STEP S3
MEDIA ID TRANSMISSION REQUEST AND PERSONAL INFORMATION TRANSMISSION REQUEST ARE TRAMSITTED
STEP S4
MEDIA ID TRANSMISSION REQUEST AND PERSONAL INFORMATION TRANSMISSION REQUEST ARE RECEIVED
STEP S5
MEDIA ID AND ENCRYPTED PERSONAL INFORMATION ARE READ
STEP S6
MEDIA ID AND ENCRYPTED PERSONAL INFORMATION (OR PERSONAL INFORMATION UNREGISTERED NOTIFICATION) ARE TRANSMITTED
STEP S7
MEDIA ID AND ENCRYPTED PERSONAL INFORMATION (OR PERSONAL INFORMATION UNREGISTERED NOTIFICATION) ARE RECEIVED
STEP S8
PERSONAL INFORMATION IS RECEIVED
WHICH ONE OF ENCRYPTED PERSONAL INFORMATION AND PERSONAL INFORMATION UNREGISTERED NOTIFICATION IS RECEIVED?
STEP S9
PERSONAL INFORMATION UNREGISTERED NOTIFICATION IS RECEIVED
DATA FOR PERSONAL INFORMATION REGISTRATION SCREEN IS TRANSMITTED
STEP S10
DATA FOR PERSONAL INFORMATION REGISTRATION SCREEN IS RECEIVED AND PERSONAL INFORMATION REGISTRATION SCREEN IS DISPLAYED
STEP S11
PERSONAL INFORMATION IS RECEIVED FROM USER
STEP S12
PERSONAL INFORMATION IS ENCRYPTED AND TRANSMITTED
STEP S13
ENCRYPTED PERSONAL INFORMATION IS RECEIVED
STEP S14
ENCRYPTED PERSONAL INFORMATION IS DECRYPTED
STEP S15
SERVICE FILE IS GENERATED BY EXTRACTING FILE MATERIALS CORRESPONDING TO PERSONAL INFORMATION AND EDITING EXTARCTED FILE MATERIALS
STEP S16
DECRYPTED PERSONAL INFORMATION IS UPDATED AND ENCRYPTED
STEP S17
SERVICE FILE AND ENCRYPTED PERSONAL INFORAMTION ARE TRANSMITTED
STEP S18
SERVICE FILE IS RECEIVED, SCREEN IS DISPLAYED, AND ENCRYPTED PERSONAL INFORMATION IS RECEIVED AND WRITTEN
STEP S19
END

FIG. 7

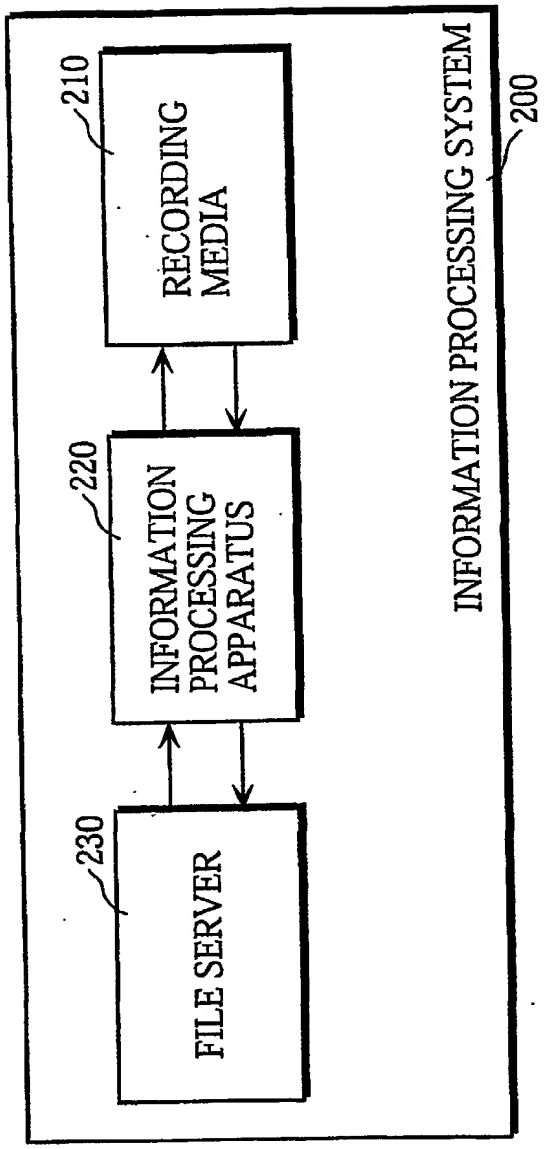
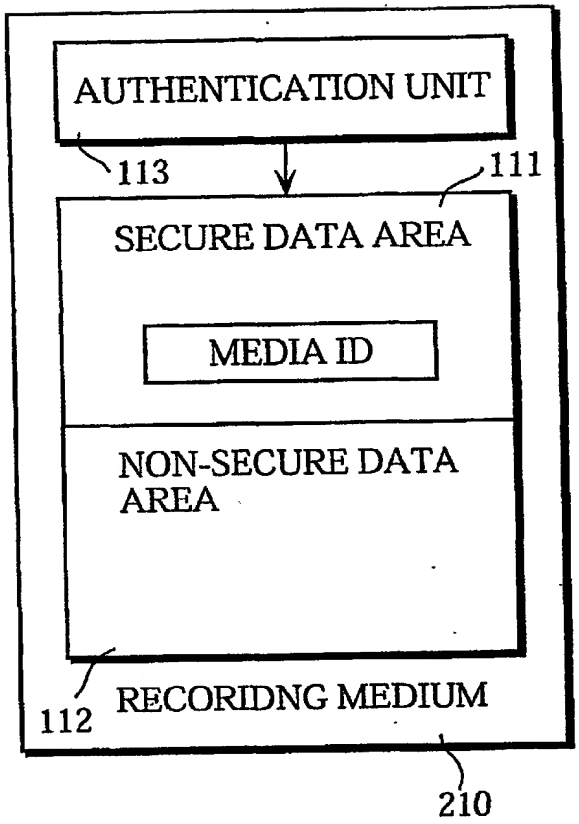

INFORMATION PROCESSING SYSTEM
200
210
RECORDING MEDIA
220
INFORMATION PROCESSING APPARATUS
230
FILE SERVER

FIG. 8


AUTHENTICATION UNIT
113
111
SECURE DATA AREA
MEDIA ID
NON-SECURE DATA AREA
112
RECORIDNG MEDIUM
210

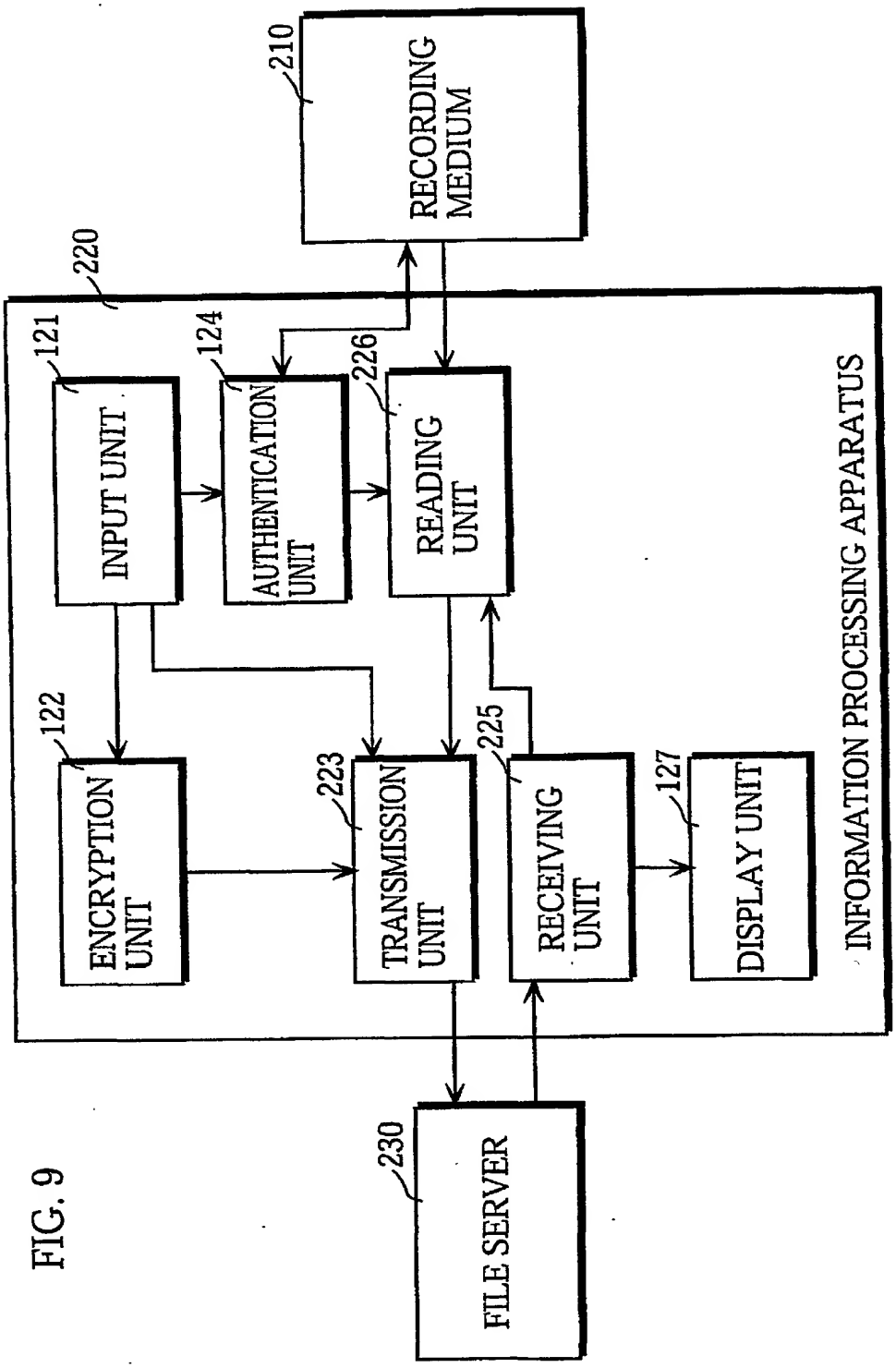
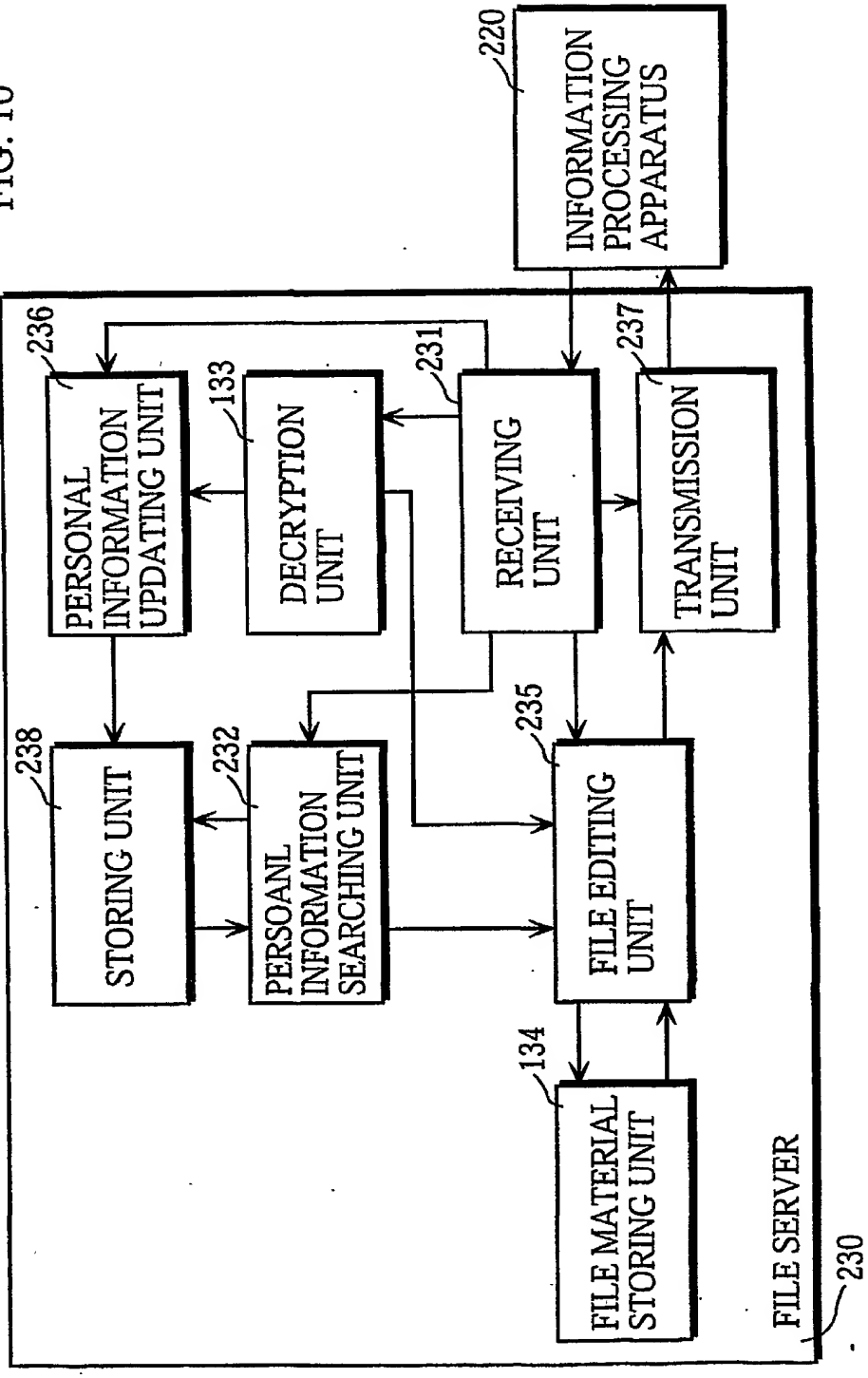

210
RECORDING MEDIUM
220
121
INPUT UNIT
124
AUTHENTICATION UNIT
226
READING UNIT
122
ENCRYPTION UNIT
223
TRANSMISSION UNIT
225
RECEIVING UNIT
127
DISPLAY UNIT
INFORMATION PROCESSING APPARATUS
230
FILE SERVER

FIG. 9

FIG. 10


220
INFORMATION PROCESSING APPARATUS
236
PERSONAL INFORMATION UPDATING UNIT
133
DECRYPTION UNIT
231
RECEIVING UNIT
237
TRANSMISSION UNIT
238
STORING UNIT
232
PERSOANL INFORMATION SEARCHING UNIT
235
FILE EDITING UNIT
134
FILE MATERIAL STORING UNIT
FILE SERVER
230

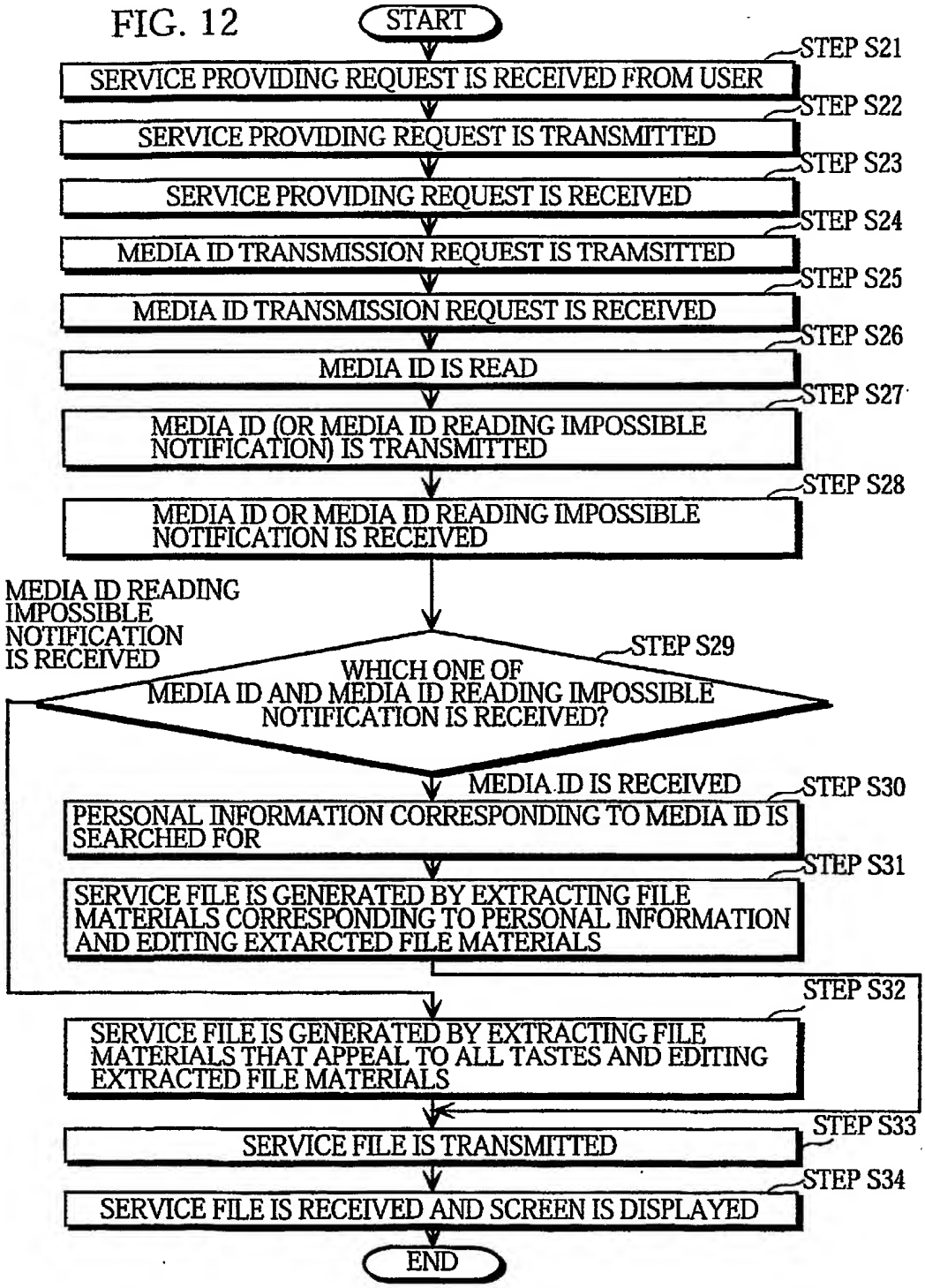
PCT/US01/00881

09/936610

FIG. 11

MEDIA ID	ID1	ID2	• • •
USER NAME	ARAMIS	RYAN	• • •
SEX	MALE	FEMALE	• • •
AGE	27	24	• • •
DATE OF BIRTH	090872	060575	• • •
JOB	ENGINEER	STUDENT	• • •
ADDRESS	○○WARD, TOKYO	××CITY, OSAKA	• • •
TELEPHONE NUMBER	555-777-XXXX	555-777-△△△△	• • •
MAIL ADDRESS	Aramis@zzz	Ryan@zzz	• • •
CARD NUMBER	123....	456....	• • •
NUMBER OF TIMES THE SITE HAS BEEN VISITED	11	1	• • •
DATE AND TIME OF SITE VISIT	a10:30 12/07/99	p9:30 11/25/99	• • •
HOBBY 1	SOCCER	COOKING	• • •
HOBBY 2	TRAVEL	TRAVEL	• • •
• • •	• • •	• • •	

FIG. 12


START
STEP S21
SERVICE PROVIDING REQUEST IS RECEIVED FROM USER
STEP S22
SERVICE PROVIDING REQUEST IS TRANSMITTED
STEP S23
SERVICE PROVIDING REQUEST IS RECEIVED
STEP S24
MEDIA ID TRANSMISSION REQUEST IS TRAMSITTED
STEP S25
MEDIA ID TRANSMISSION REQUEST IS RECEIVED
STEP S26
MEDIA ID IS READ
STEP S27
MEDIA ID (OR MEDIA ID READING IMPOSSIBLE NOTIFICATION) IS TRANSMITTED
STEP S28
MEDIA ID OR MEDIA ID READING IMPOSSIBLE NOTIFICATION IS RECEIVED
MEDIA ID READING IMPOSSIBLE NOTIFICATION IS RECEIVED
STEP S29
WHICH ONE OF MEDIA ID AND MEDIA ID READING IMPOSSIBLE NOTIFICATION IS RECEIVED?
MEDIA ID IS RECEIVED
STEP S30
PERSONAL INFORMATION CORRESPONDING TO MEDIA ID IS SEARCHED FOR
STEP S31
SERVICE FILE IS GENERATED BY EXTRACTING FILE MATERIALS CORRESPONDING TO PERSONAL INFORMATION AND EDITING EXTARCTED FILE MATERIALS
STEP S32
SERVICE FILE IS GENERATED BY EXTRACTING FILE MATERIALS THAT APPEAL TO ALL TASTES AND EDITING EXTRACTED FILE MATERIALS
STEP S33
SERVICE FILE IS TRANSMITTED
STEP S34
SERVICE FILE IS RECEIVED AND SCREEN IS DISPLAYED
END